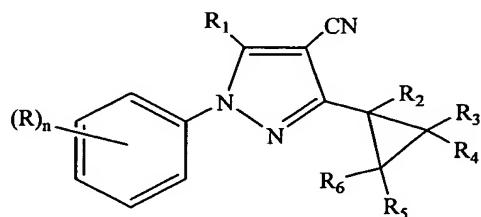


What is claim d is:

1. A composition for prevention, amelioration or control of external parasites on animals and humans comprising a pharmaceutically acceptable carrier and an ectoparasiticidally effective amount of a compound of formula I



(I)

5

or a pharmaceutically acceptable salt thereof wherein

R is halogen, OR<sub>7</sub>, SO<sub>m</sub>R<sub>8</sub>, NO<sub>2</sub>, CN, C<sub>1</sub>-C<sub>6</sub>haloalkyl or an optionally substituted C<sub>1</sub>-C<sub>6</sub>alkyl group;

n is 0 or an integer of 1, 2 or 3;

10 m is 0 or an integer of 1 or 2;

R<sub>1</sub> is H, halogen, NO<sub>2</sub>, NR<sub>9</sub>R<sub>10</sub>, NR<sub>11</sub>COR<sub>12</sub>, NCHNR<sub>9</sub>R<sub>10</sub> or NCHOR<sub>13</sub>;

R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are each independently H, halogen or a C<sub>1</sub>-C<sub>4</sub>alkyl, aryl or heteroaryl group each optionally substituted;

15 R<sub>7</sub> is H or a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group each optionally substituted;

R<sub>8</sub> is a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group, each optionally substituted;

20 R<sub>9</sub> and R<sub>10</sub> are each independently H, C<sub>1</sub>-C<sub>4</sub>haloalkyl or a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group each optionally substituted or R<sub>9</sub> and R<sub>10</sub> may be taken together with the atom to

which they are attached to form a 5- to 7-membered ring optionally containing 1 or 2 additional heteroatoms selected from O, N or S;

R<sub>11</sub> is H, COR<sub>12</sub> or an optionally substituted C<sub>1</sub>-C<sub>4</sub>alkyl group;

25 R<sub>12</sub> is a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group each optionally substituted; and

R<sub>13</sub> is H or a C<sub>1</sub>-C<sub>6</sub>alkyl, aryl or heteroaryl group each optionally substituted; or a stereoisomer or tautomer thereof.

2. The composition according to claim 1 wherein formula I has the proviso that R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are not all -H, unless R<sub>1</sub> is halogen.
3. The composition according to claim 2 wherein R is halogen or  
5 haloalkyl.
4. The composition according to claim 2 wherein R<sub>1</sub> is H, halogen or  
NR<sub>9</sub>R<sub>10</sub>.
5. The composition according to claim 1 wherein R<sub>5</sub> and R<sub>6</sub> are H.
6. The composition according to claim 3 wherein R<sub>2</sub> is H, halogen,  
10 methyl or an optionally substituted phenyl group.
7. The composition according to claim 6 wherein R<sub>1</sub> is H or Cl.
8. The composition according to claim 7 wherein R is halogen or CF<sub>3</sub> and  
n is 3.
9. The composition according to claim 8 wherein R<sub>2</sub> is Cl or methyl and  
15 R<sub>3</sub> and R<sub>4</sub> are each independently H, Cl or Br.
10. The composition according to claim 2 wherein said compound is  
selected from the group consisting of:  
5-chloro-3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-  
(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;  
20 3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-  
pyrazole-4-carbonitrile;  
3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-  
carbonitrile;  
25 3-(2,2-dichloro-1,3-dimethylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-  
pyrazole-4-carbonitrile;  
3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-  
pyrazole-4-carbonitrile;

3-(2,2-dibromo-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5 5-chloro-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-amino-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-bromo-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

10 5-amino-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-chloro-3-cyclopropyl-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

15 5-chloro-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-bromo-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-bromo-3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

20 3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-nitro-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-iodo-1H-pyrazole-4-carbonitrile;

25 3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-(dimethylamino)-1H-pyrazole-4-carbonitrile;

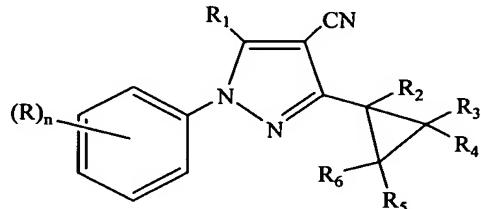
3-(2,2-dichloro-1-methylcyclopyrazol)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-(diethylamino)-1H-pyrazole-4-carbonitrile;

30 5-[(cyclopropanecarbonyl)amino]-3-(2,2-dichloro-1methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)phenyl]-2H-pyrazol-3-yl}-formimidic acid methyl ester;

N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2H-pyrazol-3-yl}-formimidic acid propyl ester;  
 N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2H-pyrazol-3-yl}-formimidic acid ethyl ester;  
 5 the stereoisomers thereof; and the tautomers thereof; or a pharmaceutically acceptable salt thereof.

11. A method for the prevention, amelioration or control of ectoparasitic infection or infestation in a homeothermic animal which comprises providing to a  
 10 homeothermic animal in need thereof a prophylactically, therapeutically or pharmaceutically effective amount of a compound of formula I



(I)

or a pharmaceutically acceptable salt thereof wherein

R is halogen, OR<sub>7</sub>, SO<sub>m</sub>R<sub>8</sub>, NO<sub>2</sub>, CN, C<sub>1</sub>-C<sub>6</sub>haloalkyl or an optionally substituted C<sub>1</sub>-C<sub>6</sub>alkyl group;  
 15 n is 0 or an integer of 1, 2 or 3;  
 m is 0 or an integer of 1 or 2;  
 R<sub>1</sub> is H, halogen, NO<sub>2</sub>, NR<sub>9</sub>R<sub>10</sub>, NR<sub>11</sub>COR<sub>12</sub>, NCHNR<sub>9</sub>R<sub>10</sub> or NCHOR<sub>13</sub>;  
 R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are each independently H, halogen or a C<sub>1</sub>-C<sub>4</sub>alkyl, aryl  
 20 or heteroaryl group each optionally substituted;  
 R<sub>7</sub> is H or a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group each optionally substituted;  
 R<sub>8</sub> is a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group, each optionally substituted;  
 25 R<sub>9</sub> and R<sub>10</sub> are each independently H, C<sub>1</sub>-C<sub>4</sub>haloalkyl or a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group each optionally substituted or R<sub>9</sub> and R<sub>10</sub> may be taken together with the atom to

which they are attached to form a 5- to 7-membered ring optionally containing 1 or 2 additional heteroatoms selected from O, N or S;

R<sub>11</sub> is H, COR<sub>12</sub> or an optionally substituted C<sub>1</sub>-C<sub>4</sub>alkyl group;

R<sub>12</sub> is a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group each 5  
optionally substituted; and

R<sub>13</sub> is H or a C<sub>1</sub>-C<sub>6</sub>alkyl, aryl or heteroaryl group each optionally substituted; or a stereoisomer or tautomer thereof.

12. The method according to claim 11 wherein the formula I has the  
10 proviso that R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are not all -H, unless R<sub>1</sub> is halogen.

13. The method according to claim 12 wherein R is halogen or haloalkyl  
and n is 3.

14. The method according to claim 13 wherein R<sub>5</sub> and R<sub>6</sub> are H.

15. The method according to claim 14 wherein R<sub>2</sub> is H, halogen, methyl or  
15 an optionally substituted phenyl group.

16. The method according to claim 12 wherein the ectoparasite is  
selected from the group consisting of Diptera; Muscidae; Acarina; and Siphonaptera.

17. The method according to claim 16 wherein the ectoparasite is  
selected from the group consisting of fleas; ticks; lice; blow flies; face flies and horn  
20 flies.

18. The method according to claim 16 wherein the homeothermic animal  
is selected from the group consisting of cattle; sheep; horse; goat; pig; camel; water  
buffalo; donkey; rabbit; fallow deer; reindeer; mink; chinchilla; raccoon; chicken;  
geese; turkey; duck; dog and cat.

25 19. The method according to claim 17 wherein the homeothermic animal  
is selected from the group consisting of cattle, sheep, horse, dog, and cat.

20. A veterinary pour-on composition which comprises: a spreading oil;  
an aliphatic or aromatic hydrocarbon, mono or polyhydric alcohol, a C<sub>1</sub>-C<sub>10</sub> alkyl

ketone, or a mixture thereof; and an ectoparasiticidally effective amount of a compound of formula I according to claim 1.

21. The composition according to claim 20 wherein formula I has the proviso that R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are not all -H, unless R<sub>1</sub> is halogen.

22. The composition according to claim 21 wherein R is halogen or haloalkyl and n is 3.

23. The composition according to claim 22 wherein said compound is selected from the group consisting of:

10 5-chloro-3-(2,2-dichloro-1methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;  
3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;  
3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;  
15 3-(2,2-dichloro-1,3-dimethylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;  
3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;  
20 3-(2,2-dibromo-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;  
3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;  
5-chloro-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;  
25 5-amino-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;  
5-bromo-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;  
30 5-amino-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-chloro-3-cyclopropyl-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-chloro-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5 5-bromo-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-bromo-3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-nitro-

10 1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-iodo-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-(dimethylamino)-1H-pyrazole-4-carbonitrile;

15 3-(2,2-dichloro-1-methylcyclopyrazol)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-(diethylamino)-1H-pyrazole-4-carbonitrile;

5-[(cyclopropanecarbonyl)amino]-3-(2,2-dichloro-1methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2H-pyrazol-3-yl}-formimidic acid methyl ester;

20 N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2-H-pyrazol-3-yl}-formimidic acid propyl ester;

N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2-H-pyrazol-3-yl}-formimidic acid ethyl ester;

25 the stereoisomers thereof; and the tautomers thereof.

24. A veterinary pour-on composition which comprises: approximately 40-50% by weight xylene; approximately 20-30% by weight cyclohexanone; approximately 5-15% vegetable or mineral oil or a combination thereof; and approximately 10-25% of a compound selected from the group consisting of:

30 5-chloro-3-(2,2-dichloro-1methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1,3-dimethylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5 3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

3-(2,2-dibromo-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

10 5-chloro-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-amino-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

15 5-bromo-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-amino-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-chloro-3-cyclopropyl-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

20 5-chloro-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-bromo-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

25 5-bromo-3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-nitro-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-iodo-1H-pyrazole-4-carbonitrile;

30 3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-(dimethylamino)-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopyrazol)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-(diethylamino)-1H-pyrazole-4-carbonitrile;

5-[(cyclopropanecarbonyl)amino]-3-(2,2-dichloro-1methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5 N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2H-pyrazol-3-yl}-formimidic acid methyl ester;

N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2-H-pyrazol-3-yl}-formimidic acid propyl ester;

N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2-H-pyrazol-3-yl}-formimidic acid ethyl ester;

10 the stereoisomers thereof; and the tautomers thereof.

25. The composition according to claim 24 wherein an effective dosage of said compound is within the range of about 0.1 mg/kg to 100 mg/kg of animal body weight.

26. A veterinary composition which comprises a pharmaceutically acceptable carrier and about 0.1 ppm to 5000 ppm of a compound selected from the group consisting of:

20 5-chloro-3-(2,2-dichloro-1methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

25 3-(2,2-dichloro-1,3-dimethylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

30 3-(2,2-dibromo-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-chloro-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-amino-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-bromo-3-(2,2-dibromo-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-amino-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-chloro-3-cyclopropyl-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

5-chloro-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-bromo-3-(2,2-dichloro-1-methylcyclopropyl)-1-(2,4,6-trichlorophenyl)-1H-pyrazole-4-carbonitrile;

5-bromo-3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-nitro-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-iodo-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-(dimethylamino)-1H-pyrazole-4-carbonitrile;

3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-(diethylamino)-1H-pyrazole-4-carbonitrile;

5-[(cyclopropanecarbonyl)amino]-3-(2,2-dichloro-1-methylcyclopropyl)-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazole-4-carbonitrile;

N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2H-pyrazol-3-yl}-formimidic acid methyl ester;

N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2H-pyrazol-3-yl}-formimidic acid propyl ester;

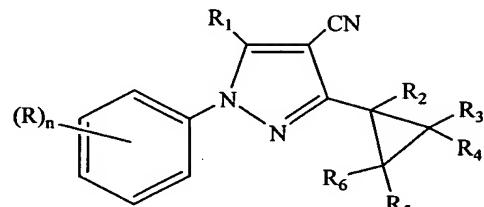
N-{4-cyano-5-(2,2-dichloro-1-methyl-cyclopropyl)-2-[2,6-dichloro-4-(trifluoromethyl)-phenyl]-2H-pyrazol-3-yl}-formimidic acid ethyl ester;

the stereoisomers thereof; and the tautomers thereof.

27. The composition according to claim 26 which comprises about 0.5 ppm to 1000 ppm of said compound.

5 28. The composition according to claim 27 which comprises about 0.2 ppm to 20 ppm of said compound.

29. A compound of formula I



(I)

10 or a pharmaceutically acceptable salt thereof wherein

R is halogen, OR<sub>7</sub>, SO<sub>m</sub>R<sub>8</sub>, NO<sub>2</sub>, CN, C<sub>1</sub>-C<sub>6</sub>haloalkyl or an optionally substituted C<sub>1</sub>-C<sub>6</sub>alkyl group;

n is 0 or an integer of 1, 2 or 3;

m is 0 or an integer of 1 or 2;

15 R<sub>1</sub> is H, halogen, NO<sub>2</sub>, NR<sub>9</sub>R<sub>10</sub>, NR<sub>11</sub>COR<sub>12</sub>, NCHNR<sub>9</sub>R<sub>10</sub> or NCHOR<sub>13</sub>;

R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are each independently H, halogen or a C<sub>1</sub>-C<sub>4</sub>alkyl, aryl or heteroaryl group each optionally substituted;

R<sub>7</sub> is H or a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group each optionally substituted;

20 R<sub>8</sub> is a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group, each optionally substituted;

R<sub>9</sub> and R<sub>10</sub> are each independently H, C<sub>1</sub>-C<sub>4</sub>haloalkyl or a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group each optionally substituted or R<sub>9</sub> and R<sub>10</sub> may be taken together with the atom to

25 which they are attached to form a 5- to 7-membered ring optionally containing 1 or 2 additional heteroatoms selected from O, N or S;

R<sub>11</sub> is H, COR<sub>12</sub> or an optionally substituted C<sub>1</sub>-C<sub>4</sub>alkyl group;

R<sub>12</sub> is a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, aryl or heteroaryl group each optionally substituted; and

R<sub>13</sub> is H or a C<sub>1</sub>-C<sub>6</sub>alkyl, aryl or heteroaryl group each optionally substituted; or a stereoisomer or tautomer thereof.

5

30. The compound of claim 29 wherein formula I has the proviso that R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are not all -H, unless R<sub>1</sub> is halogen.